

# XP-002102630

- 1/1 - (C) WPI / DERWENT
- AN - 97-104299 c10!
- AP - JP950147015 950614
- PR - JP950147015 950614
- TI - Exhaust gas purification system of diesel engine - uses oxidation catalyst and particulate filter sequentially installed from upstream side of exhaust gas flow in EGR passage between suction and exhaust piping
- IW - EXHAUST GAS PURIFICATION SYSTEM DIESEL ENGINE OXIDATION CATALYST PARTICLE FILTER SEQUENCE INSTALLATION UPSTREAM SIDE EXHAUST GAS FLOW EGR PASSAGE SUCTION EXHAUST PIPE
- PA - (HINM ) HINO MOTORS LTD
- PN - JP8338320 A 961224 DW9710 F02M25/07 013pp
- ORD - 1996-12-24
- IC - F01N3/02 ; F01N3/24 ; F01N5/02 ; F01P7/16 ; F02M25/07
- FS - CPI;GMPI;EPI
- DC - H06 J01 Q51 Q53 X22
- AB - J08338320 The system consists of an EGR passage (16) which diverges from the exhaust pipe (14) and combines with the suction pipe (12). The suction and exhaust pipes are respectively connected with the engine (10) through the intake manifold (11) and exhaust manifold (13). The speed of rotation of the engine and the load acting on the engine are detected respectively by a rotation sensor (22) and a load sensor (23). The controller (24) controls the EGR flow control valve (17) installed in the EGR passage based on the detection output of the rotation and load sensors.
  - The oxidation catalyst (18) and the particulate filter (19) are sequentially provided from the upstream side of exhaust gas flow in the EGR passage. An active metal is carried to the particulate filter from the oxidation catalyst. The particulate filter is configured to function as an oxidation catalyst. A heat exchanger is provided on the upstream side of the EGR flow control valve to cool the exhaust gas being introduced into the EGR passage to a predetermined temperature.
  - ADVANTAGE - Purifies nitrogen oxide of exhaust gas. Oxidizes unburnt combustible part of fuel and lubricant in exhaust gas. Reduces particulates in EGR passage. Incinerates particulates deposited in filter without requiring heater. Prevents filter blockage. Controls temperature of exhaust gas which flows in oxidation catalyst and EGR passage. Prevents formation of sulphate with oxidation catalyst. Prevents reduction in combustion efficiency.
  - (Dwg.1/10)